

Project Name/Location:

Contract Number: W9127N-05-C-0012

**Columbia River Channel Improvement - RM 14+45 to 15+27****Date: 09/09/2005**

<b>Dredging</b>	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
<b><u>Load Number</u></b>	DR-1	19.6	7:15:18	7362474.64	940795.70	1.3	
854	DR-2	18.7	7:16:52	7362754.24	940918.05	15.3	8.3
<b><u>Tidal Stage</u></b>	DR-2R1	18.8	7:16:56	7362750.02	940918.23	13.6	8.3
Ebb	DR-4	20.8	7:19:03	7363011.79	941223.82	9.3	
<b><u>Dredge State:</u></b>	DR-4R1	20.7	7:19:07	7363012.04	941229.90	9.4	
Overflow through	DR-3	18.9	7:22:21	7361315.08	940539.18	9.6	
skimmers only	DR-3R1	20.3	7:22:25	7361315.08	940539.18	7.5	
<b><u>Weather:</u></b>							
Overcast							
<b><u>Wind:</u></b>							
10-15 kts							
<b><u>Seas:</u></b>							
1'-2'							
<b><u>Disposal location</u></b>							
Columbia RM 8							

<b>Remarks:</b>	<b>Action Taken:</b>
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of the plume,	Re-test DR-3R1 was taken.
on starboard side.	
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>	<b>Turbidity Compliance</b>	<b>DO Compliance</b>
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location:

Contract Number: W9127N-05-C-0012

**Columbia River Channel Improvement - RM 14+45 to 15+27****Date: 09/09/2005**

Disposal <u>Load Number</u> 854 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Split Hull <u>Weather:</u> Overcast <u>Wind:</u> 10-15 kts <u>Seas:</u> 1'-2' <u>Disposal location</u> Columbia RM 8	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DSP-1	19.2	9:50:32	7331761.29	943053.69	1.0	
	DSP-2	18.2	9:53:35	7330395.44	944407.76	15.5	8.3
	DSP-2R1	19.7	9:53:39	7330391.48	944414.02	15.5	8.3
	DSP-3	21.6	9:55:26	7331195.90	943862.59	1.3	
	DSP-3R1	21.7	9:55:30	7331195.90	943862.59	1.2	
	DSP-4	19.6	9:57:25	7330769.96	943978.09	5.3	
	DSP-4R1	19.7	9:57:29	7330766.00	943984.34	5.1	

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 exceeded 10% over background, taken out of the plume, on port side.	Re-test DSP-3R1 was taken.
	The dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location:		All coordinates in NAD 83.			Contract Number: W9127N-05-C-0012		
Columbia River Channel Maintenance - RM 8+15 to 9+20 - Desdemona							
Date: 09/09/2005							
<div>Dredging</div> <div>Load Number</div> <div>855</div> <div>Tidal Stage</div> <div>Ebb</div> <div>Dredge State:</div> <div>Overflow through skimmers only</div> <div>Weather:</div> <div>Overcast</div> <div>Wind:</div> <div>10-15 kts</div> <div>Seas:</div> <div>1'-2'</div> <div>Disposal location</div> <div>Columbia RM 8</div>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	Avg. Turbidity (NTU)
	DR-1 (10')	10.4	11:52:46	7333316.57	942573.82	1.1	1.1
	DR-1 (20')	19.3	11:52:58	7333312.86	942586.15	1.1	
	DR-2 (10')	11.0	11:57:56	7333270.44	942879.98	14.7	12.3
	DR-2 (20')	20.7	11:58:04	7333270.44	942879.98	9.8	
	DR-2R1 (10')	11.3	11:57:58	7333270.44	942879.98	14.4	13.5
	DR-2R1 (20')	20.6	11:58:10	7333270.70	942886.05	12.6	
	Retest @ point of exceedance						
	DRT-2 (10')	10.2	12:05:48	7333264.3	942855.2	1.2	1.2
	DRT-2 (20')	20.4	12:04:59	7333264.3	942855.2	1.1	
Remarks:				Action Taken:			
DR-2 avg. exceeded 10% over background, taken in the plume.				Re-tests DR-2R1 were taken.			
DR-2R1 avg. exceeded 10% over background, taken in the plume.				Additional turbidity testing (DRT) was done at the point of exceedance to insure turbidity levels returned to at least a 10% difference from the background before resuming dredging.			
Load completed at 11:59.							
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	
DR-1	Background - 300' Up Current, Within 600-Foot of Channel					OR,WA	
DR-2	300' Down Current					OR,WA	
DRT-1	Background for retest - 300' Up Current, Within 600-Foot of Channel					OR,WA	
DRT-2	Same position as DR-2					OR,WA	

<b>Project Name/Location:</b>				<b>Contract Number:</b> W9127N-05-C-0012			
<b>Columbia River Channel Maintenance - RM 8+15 to 9+20 - Desdemona</b>							
<b>Date:</b> 09/09/2005							
<b>Disposal</b> <b>Load Number</b> 855 <b>Tidal Stage</b> Ebb <b>Dredge State:</b> Split Hull <b>Weather:</b> Overcast <b>Wind:</b> 10-15 kts <b>Seas:</b> 1'-2' <b>Disposal location</b> Columbia RM 8	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>Avg. Turbidity (NTU)</b>
	DSP-1 (10')	9.0	12:15:14	7329286.34	947417.98	3.9	4.0
	DSP-1 (20')	19.6	12:15:29	7329286.34	947417.98	4.0	
	DSP-2 (10')	10.6	12:27:51	7328672.53	947681.48	16.9	13.7
	DSP-2 (20')	21.3	12:28:07	7328723.12	947679.31	10.5	
	DSP-2R1 (10')	11.1	12:27:55	7328672.53	947681.48	13.2	12.7
	DSP-2R1 (20')	19.2	12:28:13	7328723.12	947679.31	12.1	
	<b>Retest @ point of exceedance</b>						
	DSPT-2 (10')	9.6	12:33:25	7328746.7	947690.2	2.9	2.5
	DSPT-2 (20')	20.1	12:33:34	7328746.7	947690.2	2.1	
<b>Remarks:</b>				<b>Action Taken:</b>			
DSP-2 avg.exceeded 10%, taken in the plume.				Re-tests DSP-2R1 were taken.			
Re-tests DSP-2R1 avg. exceeded 10%, taken in the plume.				Additional turbidity testing (DSPT-2) was done at the point of exceedance to insure levels returned to at least a 10% difference from the background before disposing again.			
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	
DSP-1	Background - 300' Up Current, Within 600-Foot of Channel					OR, WA	
DSP-2	300' Down Current					OR, WA	

Project Name/Location:

Contract Number: W9127N-05-C-0012

**Columbia River Channel Improvement - RM 14+45 to 15+27****Date: 09/09/2005**

<div>Dredging</div> <div><u>Load Number</u></div> <div>856</div> <div><u>Tidal Stage</u></div> <div>Ebb</div> <div><u>Dredge State:</u></div> <div>Overflow through skimmers only</div> <div><u>Weather:</u></div> <div>Partly Cloudy</div> <div><u>Wind:</u></div> <div>5-10 kts</div> <div><u>Seas:</u></div> <div>0-1'</div> <div><u>Disposal location</u></div> <div>Columbia River DWS</div>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.7	13:35:15	7362327.49	940607.07	1.2	
	DR-2	20.8	13:37:12	7362777.80	940874.50	33.9	8.1
	DR-2R1	21.2	13:37:21	7362777.80	940874.50	35.9	7.9
	DR-3	18.7	13:42:10	7362162.34	939877.75	1.1	
	DR-4	19.4	13:38:50	7363349.87	941021.36	13.1	
	DR-4R1	19.4	13:38:53	7363358.55	941027.09	13.3	
<b>Remarks:</b>				<b>Action Taken:</b>			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 taken out of the plume, on port side.							
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

Project Name/Location:

Contract Number: W9127N-05-C-0012

**Columbia River Channel Improvement - RM 14+45 to 15+27****Date: 09/09/2005**

Dredging <u>Load Number</u> 857 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Partly Cloudy <u>Wind:</u> 5-10 kts <u>Seas:</u> 0-1' <u>Disposal location</u> Columbia River DWS	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	21.5	19:11:55	7362382.24	940294.56	2.8	
<b>Remarks:</b>				<b>Action Taken:</b>			
Equipment malfunction, unable to perform tests.							
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel						
DR-2	100' Down Current					OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)					WA	Not Required
DR-4	900' Down Current from point of dredging					WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						